

(20518)

Roll No.

B. Sc. (Micro.)-II

3495

B. Sc. (Micro.) Examination, May 2018

Cell Reproduction & Differentiation

(B-202)

[B. Sc. (Micro.)]

Time : Three Hours]

[Maximum Marks : 35

Note : Attempt any five questions. All questions carry equal marks.

1. What are the chemical components of chromosomes ? 7

2. Describe the types of histones and their organization in a nucleosome. 7

3. Differentiate between the following : 3 1/2 x 2 = 7

(a) Meiotic metaphase-I and mitotic metaphase

(b) Tight junctions and gap junctions.

4. Comment on the following : 3 1/2 x 2 = 7

(a) Desmosomes

(b) Cell adhesion.

5. Write a note on organization of kinetochore. 7

6. Compare the steps of differentiation in plant and animals. 7

7. Describe the following : 3 1/2 x 2 = 7

(a) Polytene chromosomes

(b) Lampbrush chromosomes.

8. Describe the events during various phases of cell cycle. 7

9. Discuss cell division with respect to meiosis and its significance. 7

10. Comment on the following : 3 1/2 x 2 = 7

(a) Intercellular recognition

(b) Bacterial chemotaxis.